

GJM Product Summary

GJM Series: The Murata GJM series is a High Q, ultra-small capacitor series for high frequency applications in the 500MHz to 10GHz range. They are suitable for applications such as VCO and PA modules. The GJM series is made with copper electrodes as a cost effective solution for low ESR and power consumption due to the high Q (low loss) performance. A variety of tight tolerance versions are available, offered in EIA sizes 0201 and 0402 with a capacitance range of 0.1 to 33pF.



Features:

- Size: 0201, 0402
- Voltage: 6.3, 25 and 50VDC
- Cap Range: 0.1-20pF 25-50VDC and 22-33pF in 6.3VDC
- Internal Electrode: Cu
- Termination: Cu + Ni/Sn plating
- ESR: Very Low
- Power: Low (<=5W)</p>
- Frequency Range: 500MHz -10GHz, High Q and Low ESR at VHF, UHF and Microwave Frequencies
- Tolerance: Tight Tolerance Available ([W]=+/-0.05 pF for under 10pF, [B]=+/-0.1pF for under 10 pF, [C]=+/-0.25pF for under 10pF, [G]=+/-2% for 10pF and over
- Temp. Characteristics: C0G (0+/-30ppm/°C-55 to 125°C) and C0H (0+/-60ppm/°C-55 to 125°C)





GJM Data Sheet



Land Pattern Dimensions



Capacitance Range

Re-Flow Soldering

| Series | а | b | с |
|--------|-----------|-------------|-----------|
| GJM03 | 0.2 ~ 0.3 | 0.2 ~ 0.35 | 0.2~0.4 |
| GJM15 | 0.3 ~ 0.5 | 0.35 ~ 0.45 | 0.4 ~ 0.6 |

Mass Production

| Series | тс | wv | Capacitance Range | | | | |
|--------|-----|-----|-------------------|-----|------|-------|-------------|
| 001100 | | | | 1pF | 10pF | 100pF | рF |
| | C0G | 25 | | | | | 0.2 - 6.8pF |
| GJM03 | C0H | 25 | | | | | 7 - 20pF |
| | C0G | 6.3 | | | | | 22 - 33pF |
| GJM15 | C0G | 50 | | | | | 0.1 - 20pF |

Global Part Numbering

| GJ | Μ | 03 | 3 | 5C | 1E | 1R0 | С | B01 | D |
|----|---|----|---|----|----|-----|---|-----|---|
| 1 | 2 | 3 | 4 | 6 | 6 | 7 | 8 | 9 | 0 |

Product ID

| Code | Product | |
|----------|---------------------------------|--|
| GJ | High Frequency Low Loss Type | |
| 2 Series | | |

| Code | Product |
|------|---------------------------|
| М | Tin Plated Termination |

Oimension (LxW)

| Code | Dimension (LxW) |
|------|-----------------|
| 03 | 0.6x0.3mm |
| 15 | 1.0x0.5mm |

4 Dimension (T)

| Code | Dimension (T) |
|------|---------------|
| 3 | 0.3mm |
| 5 | 0.5mm |

5 Temperature Characteristics

| Code | тс | Temp.Coefficient | Operating Temp. Range |
|------|-----|------------------|-----------------------|
| 5C | C0G | 0+/-30ppm/°C | -55 to 125°C |
| 6C | C0H | 0+/-60ppm/°C | -55 to 125°C |

| 6 Rated Voltage | | |
|-----------------|---------------|--|
| Code | Rated Voltage | |
| OJ | DC 6.3V | |
| 1E | DC 25V | |
| 1H | DC 50V | |
| | | |

7 Capacitance

| Code | Capacitance |
|------|-------------|
| R10 | 0.1pF |
| 1R0 | 1pF |
| 100 | 10pF |
| | |

8 Capacitance Tolerance

| W | +/-0.05pF | C0G, C0H (under 10pF) |
|---|-----------|------------------------|
| В | +/-0.1pF | C0G, C0H (under 10pF) |
| С | +/-0.25pF | C0G, C0H (under 10pF) |
| D | +/-0.5pF | C0G, C0H (5.1pF-9.9pF) |
| G | +/-2% | C0G, C0H (10pF & over) |
| J | +/-5% | COG, COH (10pF & over) |
| | | |

9 Individual Specification Code

| 🕕 Packaging | | | |
|-------------|---------------------|--|--|
| Code | Packaging | | |
| В | Bulk in nylon bag | | |
| D | φ180mm Paper Taping | | |

C-29-C



GJM Product Offering

GJM03 Series

| Size | тс | WV | Сар | Cap Tol | Murata Global P/N |
|------|-----|------|-------|-----------|--------------------|
| 0201 | C0G | 25V | 0.2pF | +/-0.1pF | GJM0335C1ER20BB01D |
| 0201 | C0G | 25V | 0.3pF | +/-0.1pF | GJM0335C1ER30BB01D |
| 0201 | C0G | 25V | 0.4pF | +/-0.1pF | GJM0335C1ER40BB01D |
| 0201 | C0G | 25V | 0.5pF | +/-0.1pF | GJM0335C1ER50BB01D |
| 0201 | C0G | 25V | 0.6pF | +/-0.1pF | GJM0335C1ER60BB01D |
| 0201 | C0G | 25V | 0.7pF | +/-0.1pF | GJM0335C1ER70BB01D |
| 0201 | C0G | 25V | 0.8pF | +/-0.1pF | GJM0335C1ER80BB01D |
| 0201 | C0G | 25V | 0.9pF | +/-0.1pF | GJM0335C1ER90BB01D |
| 0201 | C0G | 25V | 1.0pF | +/-0.25pF | GJM0335C1E1R0CB01D |
| 0201 | C0G | 25V | 1.1pF | +/-0.25pF | GJM0335C1E1R1CB01D |
| 0201 | C0G | 25V | 1.2pF | +/-0.25pF | GJM0335C1E1R2CB01D |
| 0201 | C0G | 25V | 1.3pF | +/-0.25pF | GJM0335C1E1R3CB01D |
| 0201 | C0G | 25V | 1.5pF | +/-0.25pF | GJM0335C1E1R5CB01D |
| 0201 | C0G | 25V | 1.6pF | +/-0.25pF | GJM0335C1E1R6CB01D |
| 0201 | C0G | 25V | 1.8pF | +/-0.25pF | GJM0335C1E1R8CB01D |
| 0201 | C0G | 25V | 2.0pF | +/-0.25pF | GJM0335C1E2R0CB01D |
| 0201 | C0G | 25V | 2.2pF | +/-0.25pF | GJM0335C1E2R2CB01D |
| 0201 | C0G | 25V | 2.4pF | +/-0.25pF | GJM0335C1E2R4CB01D |
| 0201 | C0G | 25V | 2.7pF | +/-0.25pF | GJM0335C1E2R7CB01D |
| 0201 | C0G | 25V | 3.0pF | +/-0.25pF | GJM0335C1E3R0CB01D |
| 0201 | C0G | 25V | 3.3pF | +/-0.25pF | GJM0335C1E3R3CB01D |
| 0201 | C0G | 25V | 3.6pF | +/-0.25pF | GJM0335C1E3R6CB01D |
| 0201 | C0G | 25V | 3.9pF | +/-0.25pF | GJM0335C1E3R9CB01D |
| 0201 | C0G | 25V | 4.0pF | +/-0.25pF | GJM0335C1E4R0CB01D |
| 0201 | C0G | 25V | 4.3pF | +/-0.25pF | GJM0335C1E4R3CB01D |
| 0201 | C0G | 25V | 4.7pF | +/-0.25pF | GJM0335C1E4R7CB01D |
| 0201 | C0G | 25V | 5.0pF | +/-0.25pF | GJM0335C1E5R0CB01D |
| 0201 | C0G | 25V | 5.1pF | +/-0.5pF | GJM0335C1E5R1DB01D |
| 0201 | C0G | 25V | 5.6pF | +/-0.5pF | GJM0335C1E5R6DB01D |
| 0201 | C0G | 25V | 6.0pF | +/-0.5pF | GJM0335C1E6R0DB01D |
| 0201 | C0G | 25V | 6.2pF | +/-0.5pF | GJM0335C1E6R2DB01D |
| 0201 | C0G | 25V | 6.8pF | +/-0.5pF | GJM0335C1E6R8DB01D |
| 0201 | COH | 25V | 7.0pF | +/-0.5pF | GJM0336C1E7R0DB01D |
| 0201 | COH | 25V | 7.5pF | +/-0.5pF | GJM0336C1E7R5DB01D |
| 0201 | COH | 25V | 8.0pF | +/-0.5pF | GJM0336C1E8R0DB01D |
| 0201 | COH | 25V | 8.2pF | +/-0.5pF | GJM0336C1E8R2DB01D |
| 0201 | COH | 25V | 9.0pF | +/-0.5pF | GJM0336C1E9R0DB01D |
| 0201 | COH | 25V | 9.1pF | +/-0.5pF | GJM0336C1E9R1DB01D |
| 0201 | COH | 25V | 10pF | +/-5% | GJM0336C1E100JB01D |
| 0201 | COH | 25V | 12pF | +/-5% | GJM0336C1E120JB01D |
| 0201 | COH | 25V | 15pF | +/-5% | GJM0336C1E150JB01D |
| 0201 | COH | 25V | 18pF | +/-5% | GJM0336C1E180JB01D |
| 0201 | COH | 25V | 20pF | +/-5% | GJM0336C1E200JB01D |
| 0201 | COG | 6.3V | 22pF | +/-5% | GJM0335C0J220JB01D |
| 0201 | C0G | 6.3V | 27pF | +/-5% | GJM0335C0J270JB01D |
| 0201 | C0G | 6.3V | 33pF | +/-5% | GJM0335C0J330JB01D |

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GJM Product Offering

GJM15 Series

| Size | тс | wv | Сар | Cap Tol | Murata Global P/N |
|------|-----|-----|-------|-----------|--------------------|
| 0402 | C0G | 50V | 0.1pF | +/-0.1pF | GJM1555C1HR10BB01D |
| 0402 | C0G | 50V | 0.2pF | +/-0.1pF | GJM1555C1HR20BB01D |
| 0402 | C0G | 50V | 0.3pF | +/-0.1pF | GJM1555C1HR30BB01D |
| 0402 | C0G | 50V | 0.4pF | +/-0.1pF | GJM1555C1HR40BB01D |
| 0402 | C0G | 50V | 0.5pF | +/-0.1pF | GJM1555C1HR50BB01D |
| 0402 | C0G | 50V | 0.6pF | +/-0.1pF | GJM1555C1HR60BB01D |
| 0402 | C0G | 50V | 0.7pF | +/-0.1pF | GJM1555C1HR70BB01D |
| 0402 | C0G | 50V | 0.8pF | +/-0.1pF | GJM1555C1HR80BB01D |
| 0402 | C0G | 50V | 0.9pF | +/-0.1pF | GJM1555C1HR90BB01D |
| 0402 | C0G | 50V | 1.0pF | +/-0.25pF | GJM1555C1H1R0CB01D |
| 0402 | C0G | 50V | 1.1pF | +/-0.25pF | GJM1555C1H1R1CB01D |
| 0402 | C0G | 50V | 1.2pF | +/-0.25pF | GJM1555C1H1R2CB01D |
| 0402 | C0G | 50V | 1.3pF | +/-0.25pF | GJM1555C1H1R3CB01D |
| 0402 | C0G | 50V | 1.5pF | +/-0.25pF | GJM1555C1H1R5CB01D |
| 0402 | C0G | 50V | 1.6pF | +/-0.25pF | GJM1555C1H1R6CB01D |
| 0402 | C0G | 50V | 1.8pF | +/-0.25pF | GJM1555C1H1R8CB01D |
| 0402 | C0G | 50V | 2.0pF | +/-0.25pF | GJM1555C1H2R0CB01D |
| 0402 | C0G | 50V | 2.2pF | +/-0.25pF | GJM1555C1H2R2CB01D |
| 0402 | C0G | 50V | 2.4pF | +/-0.25pF | GJM1555C1H2R4CB01D |
| 0402 | C0G | 50V | 2.7pF | +/-0.25pF | GJM1555C1H2R7CB01D |
| 0402 | C0G | 50V | 3.0pF | +/-0.25pF | GJM1555C1H3R0CB01D |
| 0402 | C0G | 50V | 3.3pF | +/-0.25pF | GJM1555C1H3R3CB01D |
| 0402 | C0G | 50V | 3.6pF | +/-0.25pF | GJM1555C1H3R6CB01D |
| 0402 | C0G | 50V | 3.9pF | +/-0.25pF | GJM1555C1H3R9CB01D |
| 0402 | C0G | 50V | 4.0pF | +/-0.25pF | GJM1555C1H4R0CB01D |
| 0402 | C0G | 50V | 4.3pF | +/-0.25pF | GJM1555C1H4R3CB01D |
| 0402 | C0G | 50V | 4.7pF | +/-0.25pF | GJM1555C1H4R7CB01D |
| 0402 | C0G | 50V | 5.0pF | +/-0.25pF | GJM1555C1H5R0CB01D |
| 0402 | C0G | 50V | 5.1pF | +/-0.5pF | GJM1555C1H5R1DB01D |
| 0402 | C0G | 50V | 5.6pF | +/-0.5pF | GJM1555C1H5R6DB01D |
| 0402 | C0G | 50V | 6.0pF | +/-0.5pF | GJM1555C1H6R0DB01D |
| 0402 | C0G | 50V | 6.2pF | +/-0.5pF | GJM1555C1H6R2DB01D |
| 0402 | C0G | 50V | 6.8pF | +/-0.5pF | GJM1555C1H6R8DB01D |
| 0402 | C0G | 50V | 7.0pF | +/-0.5pF | GJM1555C1H7R0DB01D |
| 0402 | C0G | 50V | 7.5pF | +/-0.5pF | GJM1555C1H7R5DB01D |
| 0402 | C0G | 50V | 8.0pF | +/-0.5pF | GJM1555C1H8R0DB01D |
| 0402 | C0G | 50V | 8.2pF | +/-0.5pF | GJM1555C1H8R2DB01D |
| 0402 | C0G | 50V | 9.0pF | +/-0.5pF | GJM1555C1H9R0DB01D |
| 0402 | C0G | 50V | 9.1pF | +/-0.5pF | GJM1555C1H9R1DB01D |
| 0402 | C0G | 50V | 10pF | +/-5% | GJM1555C1H100JB01D |
| 0402 | C0G | 50V | 12pF | +/-5% | GJM1555C1H120JB01D |
| 0402 | C0G | 50V | 15pF | +/-5% | GJM1555C1H150JB01D |
| 0402 | C0G | 50V | 18pF | +/-5% | GJM1555C1H180JB01D |
| 0402 | C0G | 50V | 20pF | +/-5% | GJM1555C1H200JB01D |

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GJM Specifications and Test Methods

| Item | Specifications | Test Methods |
|---|--|---|
| Operating Temperature | -55°C to 125°C | Reference temperature: 25°C |
| Appearance | No defects or abnormalities. | Visual inspection. |
| Dimension | Within the specified dimensions. | Using calipers. |
| Dielectric Strength | No defects or abnormalities. | 300% of the rated voltage |
| Insulation Resistance | More than 10,000M Ω or 500 Ω ·F (Whichever is smaller) | DC voltage not exceeding the rated voltage at 25°C and 75%RH max. and within 2 minutes of charging. |
| Q | 30pFmin.: Q ≥ 1000 30pFmax.: Q ≥ 400+20C C: Nominal Capacitance(pF) | Frequency 1±0.1MHz Voltage 0.5 to 5Vrms |
| Capacitance Temperature Characteristics | Temperature Coefficent: Within the specified tolerance. (Table A-1) Capacitance Change: Within ±0.2% or ±0.05pF (Whichever is larger) | The capacitance change should be measured after 5 min. at each specified temperature stage. The temperature coefficient is determined using the capacitance measured in step 3 as a reference. When cycling the temperature sequentially from step 1 through 5 the capacitance should be within the specified tolerance for the temperature coefficient and capacitance change as in Table A-1. The capacitance drift is calculated by dividing the differences between the maximum and minimum measured values in steps 1, 3 and 5 by the cap. value in step 3. Step Temperature (°C) 1 25±2 2 -55±3 3 25±2 4 125±3 5 25±2 |
| Adhesive Strength of Termination | No removal of the terminations or other defect should occur. | Solder the capacitor to the test jig (glass epoxy board) shown in Fig.1a using a eutectic solder. Then apply 5N* force in parallel with the test jig for 10±1sec. *2N(GJM03) |
| Vibration Resistance | Appearance: No defects or abnormalities. Capacitance: Within the specified tolerance. $30pFmin.: Q \ge 1000$ $30pFmax.: Q \ge 400+20C$ C: Nominal Capacitance(pF) | The frequency range, from 10 to 55Hz and return to 10Hz, should be traversed in approximately 1 minute. This motion should be applied for a period of 2 hours in each 3 mutually perpendicular directions (total of 6 hours). |
| Deflection | No crack or marked defect should occur. | Flexure:1mm |
| Solderability of Termination | 75% of the terminations are to be soldered evenly and continuously. | Immerse in eutectic solder solution for 2±0.5 seconds at 230±5°C or Sn-3.0Ag-0.5Cu solder solution for 2±0.5 seconds at 245±5°C. |
| Resistance to Soldering Heat | Appearance: No marking defects. Capacitance Change: Within $\pm 2.5\%$ or ± 0.25 pF (Whichever is larger) 30pFmin.: Q \geq 1000 30pFmax.: Q \geq 400+20C C: Nominal Capacitance(pF) | Immerse the capacitor in a eutectic solder solution or Sn-3.0 Ag–0.5Cu solder solution at 270±5°C for 10±0.5 seconds. Let sit at room temperature for 24±2 hours. |
| Temperature Cycle | Appearance: No marking defects. Capacitance Change: Within $\pm 2.5\%$ or ± 0.25 pF (Whichever is larger) 30pFmin.: Q ≥ 1000 30pFmax.: Q $\geq 400+20C$ C: Nominal Capacitance (pF) | -55°C to 125°C Five cycles |
| Humidity Steady State | Appearance: No marking defects. Capacitance Change: Within $\pm 5\%$ or $\pm 0.5pF$ (Whichever is larger) 30pF and over: $Q \ge 350$ 10pF and over, 30pF and below: $Q \ge 275+5C/2$ 10pF and below: $Q \ge 200+10C$ C: Nominal Capacitance (pF) | 40±2°C and 90 to 95% humiduty for 500±12 hours. |



GJM Specifications and Test Methods

High Frequency Ceramic Capacitors

| Item | Specifications | Test Methods |
|-----------------------|---|---|
| Humidity Load | Appearance: No marking defects. Capacitance Change: Within $\pm 7.5\%$ or $\pm 0.75pF$ (Whichever is larger) 30pF and over: $Q \ge 200$ 30pF and below: $Q \ge 100+10C/3$ C: Nominal Capacitance(pF) | Apply the rated voltage at 40±2°C and 90 to 95% humidity for 500±12 hours. |
| High Temperature Load | Appearance: No marking defects. Capacitance Change: Within $\pm 3\%$ or $\pm 0.3pF$ (Whichever is larger) 30pF and over: $Q \ge 350$ 10pF and over, 30pF and below: $Q \ge 275+5C/2$ 10pF and below: $Q \ge 200+10C$ C: Nominal Capacitance(pF) | Apply 200% of the rated voltage for 1000 ± 12 hours at the maximun operating temperature $\pm3^{\circ}$ C. Let sit for 24 ± 2 hours (temperature compensating type) at room temperature, then measure. The charge/discharge current is less than 50mA |
| ESR | 0.1pF≤C≤1pF: 350mΩ • pF below 1pF <c≤5pf: 300mω="" below<br="">5pF<c≤10pf: 250mω="" below<="" td=""><td>The ESR should be measured at room temperature, and frequency 1±0.2GHz with the equivalent of BOONTON Model 34A.</td></c≤10pf:></c≤5pf:> | The ESR should be measured at room temperature, and frequency 1±0.2GHz with the equivalent of BOONTON Model 34A. |
| | 10pF <c≤33pf: 400mω="" below<="" td=""><td>The ESR should be measured at room temperature, and frequency 500±50MHz with the equivalent of HP8753B.</td></c≤33pf:> | The ESR should be measured at room temperature, and frequency 500±50MHz with the equivalent of HP8753B. |

Table A-1

| Char. | Nominal Values | Capacitance Change from 25°C (%) | | | | | | |
|-------|----------------|----------------------------------|-------|------|-------|------|-------|--|
| | | - 55 | | -30 | | —10 | | |
| | (ppin/ C) Note | Max. | Min. | Max. | Min. | Max. | Min. | |
| 5C | 0 ± 30 | 0.58 | -0.24 | 0.40 | -0.17 | 0.25 | -0.11 | |
| 6C | 0 ± 60 | 0.87 | -0.48 | 0.60 | -0.33 | 0.38 | -0.21 | |

Note: Nominal values denote the temperature coefficient within a range of 25°C to 125°C.

GJM Series

C-29-C

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GJM Technical Data (Typical)

Capacitance - Temperature Characteristics



GJM Series

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GJM Technical Data (Typical) **ESR - Frequency Characteristics GJM03 Series** Measurement 10 Equipment 8753D (Agilent) 1 ESR (ohm) 0.1 1pF 6.8pF 20pF 0.01 100M 1G 10G FREQUENCY (Hz) **GJM15 Series** 10 1 ESR (ohm) 0.1 1pF 10pF 20pF 0.01

10G

FREQUENCY (Hz)

m u

.

r a

100M

1G

GJM Series

w w w



GJM Technical Data (Typical)

Q - Frequency Characteristics

GJM03 Series



GJM15 Series





GJM Soldering and Mounting

■ ①Caution (Soldering and Mounting)

1. Mounting Position

Choose a mounting position that minimizes the stress imposed on the chip during flexing or bending of the board.

Component Direction

Locate chip horizontal to the direction in which stress acts





Chip arrangement Worst A-C-(B<u>-</u>D) Best

- 2. Chip Placing
- An excessively low bottom dead point of the suction nozzle imposes great force on the chip during mounting, causing cracked chips. So adjust the suction nozzle's bottom dead point by correcting warp in the board. Normally, the suction nozzle's bottom dead point must be set on the upper surface of the board. Nozzle pressure for chip mounting must be a 1 to 3N static load.
- Dirt particles and dust accumulated between the suction nozzle and the cylinder inner wall prevent the nozzle from moving smoothly. This imposes great force on the chip during mounting, causing cracked chips. And the locating claw, when worn out, imposes uneven forces on the chip when positioning, causing cracked chips. The suction nozzle and the locating claw must be maintained, checked and replaced periodically.



Continued on the following page.

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GJM Soldering and Mounting

3. Reflow Soldering

- When sudden heat is applied to the components, the mechanical strength of the components should go down because remarkable temperature change causes deformity inside components. In order to prevent mechanical damage in the components, preheating should be required for both of the components and the PCB board. Preheating conditions are shown in Table 1. It is required to keep temperature differential between the soldering and the components surface (ΔT) as small as possible.
- Solderability of Tin plating termination chip might be deteriorated when low temperature soldering profile where peak solder temperature is below the Tin melting point is used. Please confirm the solderability of Tin plating termination chip before use.
- When components are immersed in solvent after mounting, be sure to maintain the temperature difference (ΔT) between the component and solvent within the range shown in the Table 1.

Table 1

| Part Number | Temperature Differential |
|-------------|--------------------------|
| GJM03/15 | ∆T≦190℃ |
| | |

Recommended Conditions

| | Pb-Sn S | Lood Eres Salder | |
|------------------|-----------------|------------------|------------------|
| | Infrared Reflow | Vapor Reflow | Lead Free Solder |
| Peak Temperature | 230-250°C | 230-240°C | 240-260°C |
| Atmosphere | Air | Air | Air or N2 |
| Atmosphere | Air | Air | Air or N2 |

Pb-Sn Solder: Sn-37Pb

Lead Free Solder: Sn-3.0Ag-0.5Cu

Optimum Solder Amount for Reflow Soldering

 Overly thick application of solder paste results in excessive fillet height solder.
This makes the chip more susceptible to mechanical

and thermal stress on the board and may cause cracked chips.

- Too little solder paste results in a lack of adhesive strength on the outer electrode, which may result in chips breaking loose from the PCB.
- Make sure the solder has been applied smoothly to the end surface to a height of 0.2mm min.

Inverting the PCB

Make sure not to impose an abnormal mechanical shock on the PCB.



Allowable Soldering Temperature and Time





Continued on the following page.

GJM Series



GJM Soldering and Mounting

Correction with a Soldering Iron

(1) For Chip Type Capacitors

• When sudden heat is applied to the components by use of a soldering iron, the mechanical strength of the components will go down because the extreme temperature change causes deformations inside the components. In order to prevent mechanical damage to the components, preheating is required for both the components and the PCB board. Preheating conditions, (The "Temperature of the Soldering Iron Tip", "Preheating Temperature", "Temperature Differential" between the iron tip and the components and the PCB), should be within the conditions of Table 2. It is required to keep the temperature differential between the soldering Iron and the component's surface (ΔT) as small as possible. After soldering, do not allow the component/PCB to cool down rapidly. The operating time for the re-working should be as short as possible. When re-working time is too long, it may cause solder leaching, and that will cause a reduction of the adhesive strength of the terminations.

• Optimum Solder Amount when Re-working Using a Soldering Iron

In case of smaller sizes than 0603, (GJM03/15), the top of the solder fillet should be lower than 2/3's of the thickness of the component or 0.5mm whichever is smaller. If the solder amount is excessive, the risk of cracking is higher during board bending or under any other stressful conditions. A Soldering iron φ 3mm or smaller should be used. It is also necessary to keep the soldering iron from touching the components during the re-work. Solder wire with φ 0.5mm or smaller is required for soldering.

Washing

Excessive output of ultrasonic oscillation during cleaning causes PCBs to resonate, resulting in cracked chips or broken solder. Take note not to vibrate PCBs.

FAILURE TO FOLLOW THE ABOVE CAUTIONS MAY RESULT, WORST CASE, IN A SHORT CIRCUIT AND FUMING WHEN THE PRODUCT IS USED.

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| Table 2 | | | | |
|-------------|---|---------------------------|-----------------------------------|------------|
| Part Number | Temperature of Soldering Iron Tip | Preheating Temperature | Temperature Differential ∆T | Atmosphere |
| GJM03/15 | 350°C max. | 150°C min. | ∆T≦190°C | Air |

Applicable for both Pb-Sn and Lead Free Solder. Ph-Sn Solder: Sn-37Pb

Lead Free Solder: Sn-3.0Ag-0.5Cu



GJM Series

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GJM Design Engineering Kits

General Ceramic Chip Capacitors 0201 (6.3 to 25 VDC)

- Better Q and low ESR at VHF, UHF and microwave frequencies.
- 0201 size with Copper inner electrode.
- Tight tolerance available.
- $[\overline{W}]$ = +/-0.05pF for 5pF & under [B] = +/-0.1pF for under 10pF [C] = +/-0.25pF for under 10pF
- [F] = +/-1% for 10pF & over [G] = +/-2% for 10pF & over
- Low power consumption, yield ratio improvement due to the better Q or lower ESR.
- GJM series is suited to VCO or PA module applications.
- GJM series is offered with a Ni barrier termination plated with Matte Tin (Sn), and is RoHS compliant.

GJM03-KIT-----E (Standard Tolerance)

| No. 1 2 | Description 0201/C0G/0.20pF/25V 0201/C0G/0.30pF/25V | Murata Global P/N GJM0335C1ER20BB01 | Qty. 20 |
|---------------|---|--|------------|
| 1 2 2 | 0201/C0G/0.20pF/25V 0201/C0G/0.30pF/25V | GJM0335C1ER20BB01 | 20 |
| 2 | 0201/C0G/0.30pF/25V | | |
| 2 | | GJM0335C1ER30BB01 | 20 |
| 3 | 0201/C0G/0.40pF/25V | GJM0335C1ER40BB01 | 20 |
| 4 | 0201/C0G/0.50pF/25V | GJM0335C1ER50BB01 | 20 |
| 5 | 0201/C0G/0.60pF/25V | GJM0335C1ER60BB01 | 20 |
| 6 | 0201/C0G/0.70pF/25V | GJM0335C1ER70BB01 | 20 |
| 7 | 0201/C0G/0.80pF/25V | GJM0335C1ER80BB01 | 20 |
| 8 | 0201/C0G/0.90pF/25V | GJM0335C1ER90BB01 | 20 |
| 9 | 0201/C0G/1.0pF/25V | GJM0335C1E1R0CB01 | 20 |
| 10 | 0201/C0G/1.1pF/25V | GJM0335C1E1R1CB01 | 20 |
| 11 | 0201/C0G/1.2pF/25V | GJM0335C1E1R2CB01 | 20 |
| 12 | 0201/C0G/1.3pF/25V | GJM0335C1E1R3CB01 | 20 |
| 13 | 0201/C0G/1.5pF/25V | GJM0335C1E1R5CB01 | 20 |
| 14 | 0201/C0G/1.6pF/25V | GJM0335C1E1R6CB01 | 20 |
| 15 | 0201/C0G/1.8pF/25V | GJM0335C1E1R8CB01 | 20 |
| 16 | 0201/C0G/2.0pF/25V | GJM0335C1E2R0CB01 | 20 |
| 17 | 0201/C0G/2.2pF/25V | GJM0335C1E2R2CB01 | 20 |
| 18 | 0201/C0G/2.4pF/25V | GJM0335C1E2R4CB01 | 20 |
| 19 | 0201/C0G/2.7pF/25V | GJM0335C1E2R7CB01 | 20 |
| 20 | 0201/C0G/3.0pF/25V | GJM0335C1E3R0CB01 | 20 |
| 21 | 0201/C0G/3.3pF/25V | GJM0335C1E3R3CB01 | 20 |
| 22 | 0201/C0G/3.6pF/25V | GJM0335C1E3R6CB01 | 20 |
| 23 | 0201/C0G/3.9pF/25V | GJM0335C1E3R9CB01 | 20 |
| 24 | 0201/C0G/4.0pF/25V | GJM0335C1E4R0CB01 | 20 |
| 25 | 0201/C0G/4.3pF/25V | GJM0335C1E4R3CB01 | 20 |
| 26 | 0201/C0G/4.7pF/25V | GJM0335C1E4R7CB01 | 20 |
| 27 | 0201/C0G/5.0pF/25V | GJM0335C1E5R0CB01 | 20 |
| 28 | 0201/C0G/5.1pF/25V | GJM0335C1E5R1DB01 | 20 |
| 29 | 0201/C0G/5.6pF/25V | GJM0335C1E5R6DB01 | 20 |
| 30 | 0201/C0G/6.0pF/25V | GJM0335C1E6B0DB01 | 20 |
| 31 | 0201/C0G/6.2pF/25V | GJM0335C1E6R2DB01 | 20 |
| 32 | 0201/C0G/6.8pF/25V | GJM0335C1E6B8DB01 | 20 |
| 33 | 0201/C0H/7.0pF/25V | GJM0336C1E7R0DB01 | 20 |
| 34 | 0201/C0H/7 5pF/25V | GJM0336C1E7B5DB01 | 20 |
| 35 | 0201/C0H/8 0pF/25V | GJM0336C1E8B0DB01 | 20 |
| 36 | 0201/C0H/8.2pF/25V | GJM0336C1E8R2DB01 | 20 |
| 37 | 0201/C0H/9 0pF/25V | G.IM0336C1E9B0DB01 | 20 |
| 38 | 0201/C0H/9 1pF/25V | G.IM0336C1E9R1DR01 | 20 |
| 39 | 0201/C0H/10pF/25V | G.IM0336C1E100.IB01 | 20 |
| 40 | 0201/C0H/12pF/25V | G.IM0336C1E120.IB01 | 20 |
| 41 | 0201/C0H/15pF/25V | G.IM0336C1E150.IB01 | 20 |
| 42 | 0201/C0H/18pF/25V | G.IM0336C1E180.IB01 | 20 |
| 42 43 | 0201/C0H/20pF/25V | GIM0336C1E200.IB01 | 20 |
| 44 | 0201/C0G/22pE/6.3V | G.IM0335C0.1220.IB01 | 20 |
| 45 | 0201/C0G/22pF/0.3V | G IM0335C0 1270 IB01 | 20 |
| 46 | 0201/C0G/33pE/6 3V | G IM0335C0 I330 IB01 | 20 |
| -10 | 0201/000/00pr/0.0V | G0100000000000000000000000000000000000 | 20 |

GJM03-KIT-TTOL---E (Tight Tolerance)

| No. | Description | Murata Global P/N | Qty. |
|-----|---------------------|-------------------|------|
| 1 | 0201/C0G/0.20pF/25V | GJM0335C1ER20WB01 | 20 |
| 2 | 0201/C0G/0.30pF/25V | GJM0335C1ER30WB01 | 20 |
| 3 | 0201/C0G/0.40pF/25V | GJM0335C1ER40WB01 | 20 |
| 4 | 0201/C0G/0.50pF/25V | GJM0335C1ER50WB01 | 20 |
| 5 | 0201/C0G/0.60pF/25V | GJM0335C1ER60WB01 | 20 |
| 6 | 0201/C0G/0.70pF/25V | GJM0335C1ER70WB01 | 20 |
| 7 | 0201/C0G/0.80pF/25V | GJM0335C1ER80WB01 | 20 |
| 8 | 0201/C0G/0.90pF/25V | GJM0335C1ER90WB01 | 20 |
| 9 | 0201/C0G/1.0pF/25V | GJM0335C1E1R0BB01 | 20 |
| 10 | 0201/C0G/1.1pF/25V | GJM0335C1E1R1BB01 | 20 |
| 11 | 0201/C0G/1.2pF/25V | GJM0335C1E1R2BB01 | 20 |
| 12 | 0201/C0G/1.3pF/25V | GJM0335C1E1R3BB01 | 20 |
| 13 | 0201/C0G/1.5pF/25V | GJM0335C1E1R5BB01 | 20 |
| 14 | 0201/C0G/1.6pF/25V | GJM0335C1E1R6BB01 | 20 |
| 15 | 0201/C0G/1.8pF/25V | GJM0335C1E1R8BB01 | 20 |
| 16 | 0201/C0G/2.0pF/25V | GJM0335C1E2R0BB01 | 20 |
| 17 | 0201/C0G/2.2pF/25V | GJM0335C1E2R2BB01 | 20 |
| 18 | 0201/C0G/2.4pF/25V | GJM0335C1E2R4BB01 | 20 |
| 19 | 0201/C0G/2.7pF/25V | GJM0335C1E2R7BB01 | 20 |
| 20 | 0201/C0G/3.0pF/25V | GJM0335C1E3R0BB01 | 20 |
| 21 | 0201/C0G/3.3pF/25V | GJM0335C1E3R3BB01 | 20 |
| 22 | 0201/C0G/3.6pF/25V | GJM0335C1E3R6BB01 | 20 |
| 23 | 0201/C0G/3.9pF/25V | GJM0335C1E3R9BB01 | 20 |
| 24 | 0201/C0G/4.0pF/25V | GJM0335C1E4R0BB01 | 20 |
| 25 | 0201/C0G/4.3pF/25V | GJM0335C1E4R3BB01 | 20 |
| 26 | 0201/C0G/4.7pF/25V | GJM0335C1E4R7BB01 | 20 |
| 27 | 0201/C0G/5.0pF/25V | GJM0335C1E5R0BB01 | 20 |
| 28 | 0201/C0G/5.1pF/25V | GJM0335C1E5R1CB01 | 20 |
| 29 | 0201/C0G/5.6pF/25V | GJM0335C1E5R6CB01 | 20 |
| 30 | 0201/C0G/6.0pF/25V | GJM0335C1E6R0CB01 | 20 |
| 31 | 0201/C0G/6.2pF/25V | GJM0335C1E6R2CB01 | 20 |
| 32 | 0201/C0G/6.8pF/25V | GJM0335C1E6R8CB01 | 20 |
| 33 | 0201/C0H/7.0pF/25V | GJM0336C1E7R0CB01 | 20 |
| 34 | 0201/C0H/7.5pF/25V | GJM0336C1E7R5CB01 | 20 |
| 35 | 0201/C0H/8.0pF/25V | GJM0336C1E8R0CB01 | 20 |
| 36 | 0201/C0H/8.2pF/25V | GJM0336C1E8R2CB01 | 20 |
| 37 | 0201/C0H/9.0pF/25V | GJM0336C1E9R0CB01 | 20 |
| 38 | 0201/C0H/9.1pF/25V | GJM0336C1E9R1CB01 | 20 |
| 39 | 0201/C0H/10pF/25V | GJM0336C1E100GB01 | 20 |
| 40 | 0201/C0H/12pF/25V | GJM0336C1E120GB01 | 20 |
| 41 | 0201/C0H/15pF/25V | GJM0336C1E150GB01 | 20 |
| 42 | 0201/C0H/18pF/25V | GJM0336C1E180GB01 | 20 |
| 43 | 0201/C0H/20pF/25V | GJM0336C1E200GB01 | 20 |
| 44 | 0201/C0G/22pF/6.3V | GJM0335C0J220GB01 | 20 |
| 45 | 0201/C0G/27pF/6.3V | GJM0335C0J270GB01 | 20 |
| 46 | 0201/C0G/33pF/6.3V | GJM0335C0J330GB01 | 20 |

NOTE: For Ceramic Chip Capacitors, dashes are part of the part number and must be included when placing an order.

GJM Series

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General Ceramic Chip Capacitors 0402 (50 VDC)

Better Q and low ESR at VHF, UHF and microwave frequencies.

- 0402 size with Copper inner electrode. Tight tolerance available.
- [W] = +/-0.05pF for 5pF & under [B] = +/-0.1pF for under 10pF
- [C] = +/-0.25pF for under 10pF
- [F] = +/-1% for 10pF & over [G] = +/-2% for 10pF & over Low power consumption, yield ratio improvement due to the
- better Q or lower ESR.
- GJM series is suited to VCO or PA module applications. GJM series is offered with a Ni barrier termination plated with
- Matte Tin (Sn), and is RoHS compliant.

GJM15-KIT-----E (Standard Tolerance)

| No. | Description | Murata Global P/N | Qty. |
|-----|---------------------|-------------------|------|
| 1 | 0402/C0G/0.10pF/50V | GJM1555C1HR10BB01 | 20 |
| 2 | 0402/C0G/0.20pF/50V | GJM1555C1HR20BB01 | 20 |
| 3 | 0402/C0G/0.30pF/50V | GJM1555C1HR30BB01 | 20 |
| 4 | 0402/C0G/0.40pF/50V | GJM1555C1HR40BB01 | 20 |
| 5 | 0402/C0G/0.50pF/50V | GJM1555C1HR50BB01 | 20 |
| 6 | 0402/C0G/0.60pF/50V | GJM1555C1HR60BB01 | 20 |
| 7 | 0402/C0G/0.70pF/50V | GJM1555C1HR70BB01 | 20 |
| 8 | 0402/C0G/0.80pF/50V | GJM1555C1HR80BB01 | 20 |
| 9 | 0402/C0G/0.90pF/50V | GJM1555C1HR90BB01 | 20 |
| 10 | 0402/C0G/1.0pF/50V | GJM1555C1H1R0CB01 | 20 |
| 11 | 0402/C0G/1.1pF/50V | GJM1555C1H1R1CB01 | 20 |
| 12 | 0402/C0G/1.2pF/50V | GJM1555C1H1R2CB01 | 20 |
| 13 | 0402/C0G/1.3pF/50V | GJM1555C1H1R3CB01 | 20 |
| 14 | 0402/C0G/1.5pF/50V | GJM1555C1H1R5CB01 | 20 |
| 15 | 0402/C0G/1.6pF/50V | GJM1555C1H1R6CB01 | 20 |
| 16 | 0402/C0G/1.8pF/50V | GJM1555C1H1R8CB01 | 20 |
| 17 | 0402/C0G/2.0pF/50V | GJM1555C1H2R0CB01 | 20 |
| 18 | 0402/C0G/2.2pF/50V | GJM1555C1H2R2CB01 | 20 |
| 19 | 0402/C0G/2.4pF/50V | GJM1555C1H2R4CB01 | 20 |
| 20 | 0402/C0G/2.7pF/50V | GJM1555C1H2R7CB01 | 20 |
| 21 | 0402/C0G/3.0pF/50V | GJM1555C1H3R0CB01 | 20 |
| 22 | 0402/C0G/3.3pF/50V | GJM1555C1H3R3CB01 | 20 |
| 23 | 0402/C0G/3.6pF/50V | GJM1555C1H3R6CB01 | 20 |
| 24 | 0402/C0G/3.9pF/50V | GJM1555C1H3R9CB01 | 20 |
| 25 | 0402/C0G/4.0pF/50V | GJM1555C1H4R0CB01 | 20 |
| 26 | 0402/C0G/4.3pF/50V | GJM1555C1H4R3CB01 | 20 |
| 27 | 0402/C0G/4.7pF/50V | GJM1555C1H4R7CB01 | 20 |
| 28 | 0402/C0G/5.0pF/50V | GJM1555C1H5R0CB01 | 20 |
| 29 | 0402/C0G/5.1pF/50V | GJM1555C1H5R1DB01 | 20 |
| 30 | 0402/C0G/5.6pF/50V | GJM1555C1H5R6DB01 | 20 |
| 31 | 0402/C0G/6.0pF/50V | GJM1555C1H6R0DB01 | 20 |
| 32 | 0402/C0G/6.2pF/50V | GJM1555C1H6R2DB01 | 20 |
| 33 | 0402/C0G/6.8pF/50V | GJM1555C1H6R8DB01 | 20 |
| 34 | 0402/C0G/7.0pF/50V | GJM1555C1H7R0DB01 | 20 |
| 35 | 0402/C0G/7.5pF/50V | GJM1555C1H7R5DB01 | 20 |
| 36 | 0402/CUG/8.0pF/50V | GJM1555C1H8R0DB01 | 20 |
| 37 | 0402/CUG/8.2pF/50V | GJM1555C1H8R2DB01 | 20 |
| 38 | 0402/C0G/9.0pF/50V | GJM1555C1H9R0DB01 | 20 |
| 39 | 0402/CUG/9.1pF/50V | GJM1555C1H9K1DB01 | 20 |
| 40 | 0402/CUG/10pF/50V | GJM1555C1H100JB01 | 20 |
| 41 | 0402/CUG/12pF/50V | GJM1555C1H120JB01 | 20 |
| 42 | 0402/CUG/15pF/50V | GJW1555C1H150JB01 | 20 |
| 43 | 0402/CUG/18pF/50V | GJW1555C1H180JB01 | 20 |
| 44 | 0402/CUG/20pF/50V | GJW1555C1H200JB01 | 20 |

GJM15-KIT-TTOL---E (Tight Tolerance)

| Description | Murata Global P/N | Qty |
|---------------------|--|--|
| 0402/C0G/0.10pF/50V | GJM1555C1HR10WB01 | 20 |
| 0402/C0G/0.20pF/50V | GJM1555C1HR20WB01 | 20 |
| 0402/C0G/0.30pF/50V | GJM1555C1HR30WB01 | 20 |
| 0402/C0G/0.40pF/50V | GJM1555C1HR40WB01 | 20 |
| 0402/C0G/0.50pF/50V | GJM1555C1HR50WB01 | 20 |
| 0402/C0G/0.60pF/50V | GJM1555C1HR60WB01 | 20 |
| 0402/C0G/0.70pF/50V | GJM1555C1HR70WB01 | 20 |
| 0402/C0G/0.80pF/50V | GJM1555C1HR80WB01 | 20 |
| 0402/C0G/0.90pF/50V | GJM1555C1HR90WB01 | 20 |
| 0402/C0G/1.0pF/50V | GJM1555C1H1R0BB01 | 20 |
| 0402/C0G/1.1pF/50V | GJM1555C1H1R1BB01 | 20 |
| 0402/C0G/1.2pF/50V | GJM1555C1H1R2BB01 | 20 |
| 0402/C0G/1.3pF/50V | GJM1555C1H1R3BB01 | 20 |
| 0402/C0G/1.5pF/50V | GJM1555C1H1R5BB01 | 20 |
| 0402/C0G/1.6pF/50V | GJM1555C1H1R6BB01 | 20 |
| 0402/C0G/1.8pF/50V | GJM1555C1H1R8BB01 | 20 |
| 0402/C0G/2.0pF/50V | GJM1555C1H2R0BB01 | 20 |
| 0402/C0G/2.2pF/50V | GJM1555C1H2R2BB01 | 20 |
| 0402/C0G/2.4pF/50V | GJM1555C1H2R4BB01 | 20 |
| 0402/C0G/2.7pF/50V | GJM1555C1H2R7BB01 | 20 |
| 0402/C0G/3.0pF/50V | GJM1555C1H3R0BB01 | 20 |
| 0402/C0G/3.3pF/50V | GJM1555C1H3R3BB01 | 20 |
| 0402/C0G/3.6pF/50V | GJM1555C1H3R6BB01 | 20 |
| 0402/C0G/3.9pF/50V | GJM1555C1H3R9BB01 | 20 |
| 0402/C0G/4.0pF/50V | GJM1555C1H4R0BB01 | 20 |
| 0402/C0G/4.3pF/50V | GJM1555C1H4R3BB01 | 20 |
| 0402/C0G/4.7pF/50V | GJM1555C1H4R7BB01 | 20 |
| 0402/C0G/5.0pF/50V | GJM1555C1H5R0BB01 | 20 |
| 0402/C0G/5.1pF/50V | GJM1555C1H5R1CB01 | 20 |
| 0402/C0G/5.6pF/50V | GJM1555C1H5R6CB01 | 20 |
| 0402/C0G/6.0pF/50V | GJM1555C1H6R0CB01 | 20 |
| 0402/C0G/6.2pF/50V | GJM1555C1H6R2CB01 | 20 |
| 0402/C0G/6.8pF/50V | GJM1555C1H6R8CB01 | 20 |
| 0402/C0G/7.0pF/50V | GJM1555C1H7R0CB01 | 20 |
| 0402/C0G/7.5pF/50V | GJM1555C1H7R5CB01 | 20 |
| 0402/C0G/8.0pF/50V | GJM1555C1H8R0CB01 | 20 |
| 0402/C0G/8.2pF/50V | GJM1555C1H8R2CB01 | 20 |
| 0402/C0G/9.0pF/50V | GJM1555C1H9R0CB01 | 20 |
| 0402/C0G/9.1pF/50V | GJM1555C1H9R1CB01 | 20 |
| 0402/C0G/10pF/50V | GJM1555C1H100GB01 | 20 |
| 0402/C0G/12pF/50V | GJM1555C1H120GB01 | 20 |
| 0402/C0G/15pF/50V | GJM1555C1H150GB01 | 20 |
| 0402/C0G/18pF/50V | GJM1555C1H180GB01 | 20 |
| 0402/C0G/20pF/50V | GJM1555C1H200GB01 | 20 |
| | Description 0402/C0G/0.10pF/50V 0402/C0G/0.20pF/50V 0402/C0G/0.30pF/50V 0402/C0G/0.50pF/50V 0402/C0G/0.60pF/50V 0402/C0G/0.70pF/50V 0402/C0G/0.30pF/50V 0402/C0G/0.30pF/50V 0402/C0G/1.1pF/50V 0402/C0G/1.1pF/50V 0402/C0G/1.2pF/50V 0402/C0G/1.3pF/50V 0402/C0G/1.5pF/50V 0402/C0G/2.0pF/50V 0402/C0G/2.2pF/50V 0402/C0G/2.2pF/50V 0402/C0G/3.3pF/50V 0402/C0G/3.3pF/50V 0402/C0G/3.3pF/50V 0402/C0G/3.3pF/50V 0402/C0G/3.3pF/50V 0402/C0G/3.3pF/50V 0402/C0G/3.3pF/50V 0402/C0G/3.3pF/50V 0402/C0G/4.3pF/50V 0402/C0G/5.0pF/50V 0402/C0G/5.0pF/50V 0402/C0G/5.0pF/50V 0402/C0G/5.0pF/50V 0402/C0G/5.0pF/50V 0402/C0G/6.2pF/50V 0402/C0G/7.5pF/50V 0402/C0G/7.5pF/50V 0402/C0G/7.5pF/50V 0402/C0G/7.5pF/50V 0402/C0G/1.2pF/50V 0402/ | Description Murata Global P/N 0402/C0G/0.10pF/50V GJM1555C1HR10WB01 0402/C0G/0.20pF/50V GJM1555C1HR20WB01 0402/C0G/0.30pF/50V GJM1555C1HR30WB01 0402/C0G/0.40pF/50V GJM1555C1HR40WB01 0402/C0G/0.50pF/50V GJM1555C1HR60WB01 0402/C0G/0.60pF/50V GJM1555C1HR60WB01 0402/C0G/0.70pF/50V GJM1555C1HR70WB01 0402/C0G/0.80pF/50V GJM1555C1HR80WB01 0402/C0G/1.0pF/50V GJM1555C1HR80WB01 0402/C0G/1.1pF/50V GJM1555C1H180B01 0402/C0G/1.2pF/50V GJM1555C1H1R8B01 0402/C0G/1.3pF/50V GJM1555C1H1R8B01 0402/C0G/1.3pF/50V GJM1555C1H1R8B01 0402/C0G/2.0pF/50V GJM1555C1H1R8B01 0402/C0G/2.0pF/50V GJM1555C1H1R8B01 0402/C0G/2.0pF/50V GJM1555C1H2R8B01 0402/C0G/3.3pF/50V GJM1555C1H2R8B01 0402/C0G/3.3pF/50V GJM1555C1H3R0BB01 0402/C0G/3.3pF/50V GJM1555C1H3R0BB01 0402/C0G/3.4pF/50V GJM1555C1H3R0BB01 0402/C0G/3.4pF/50V GJM1555C1H3R0BB01 0402/C0G/3.4pF/50V GJM1555C1H3R0B |

NOTE: For Ceramic Chip Capacitors, dashes are part of the part number and must be included when placing an order.

G|M Series

muRata

Innovator in Elec

C-29-C